2.2.5
$$f(t) = 5\sin(3\pi^{-3}t)$$
, $g(t) = 5\cos(3\pi \cdot 2t)$
 $y = A\sin(3t)$
 $p = \frac{2\pi}{B}$, $f = \frac{1}{P}$, $f(t) = A\sin(\frac{2\pi}{T}t)$ $g(t) = B\cos(\frac{2\pi}{T}t)$

b.)
$$P? P = \frac{20}{B}$$
 $f(t): B = \frac{311}{2} P = \frac{23}{2} = \frac{4}{3}$
 $g(t): B = \frac{311}{2} P = \frac{23}{2} = \frac{4}{3}$
 $g(t): P = \frac{4}{3}$

(c)
$$f$$
? $f = \frac{1}{4}$
 $f = \frac{1}{4}$
 $f = \frac{1}{4}$
 $f = \frac{1}{4}$
 $f = \frac{3}{4}$
 $f = \frac{3}{4}$

d.) Frequency index: 3 cycles from [0,4]
$$f = \%$$

$$1 = 3$$

$$T = 4$$